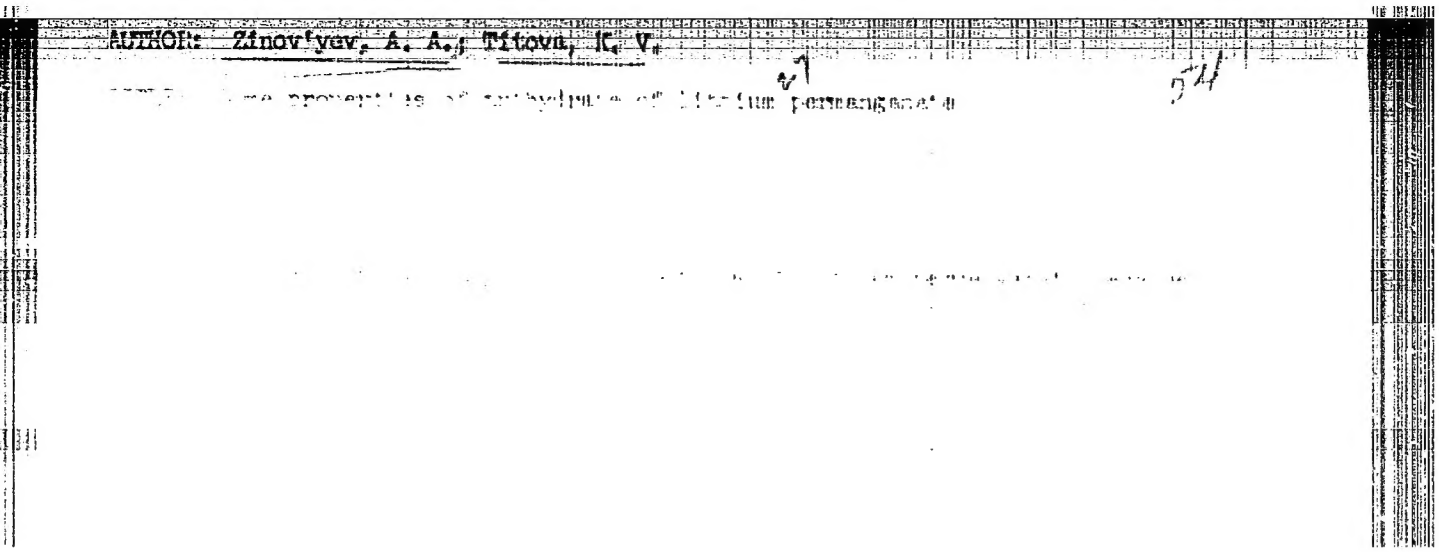
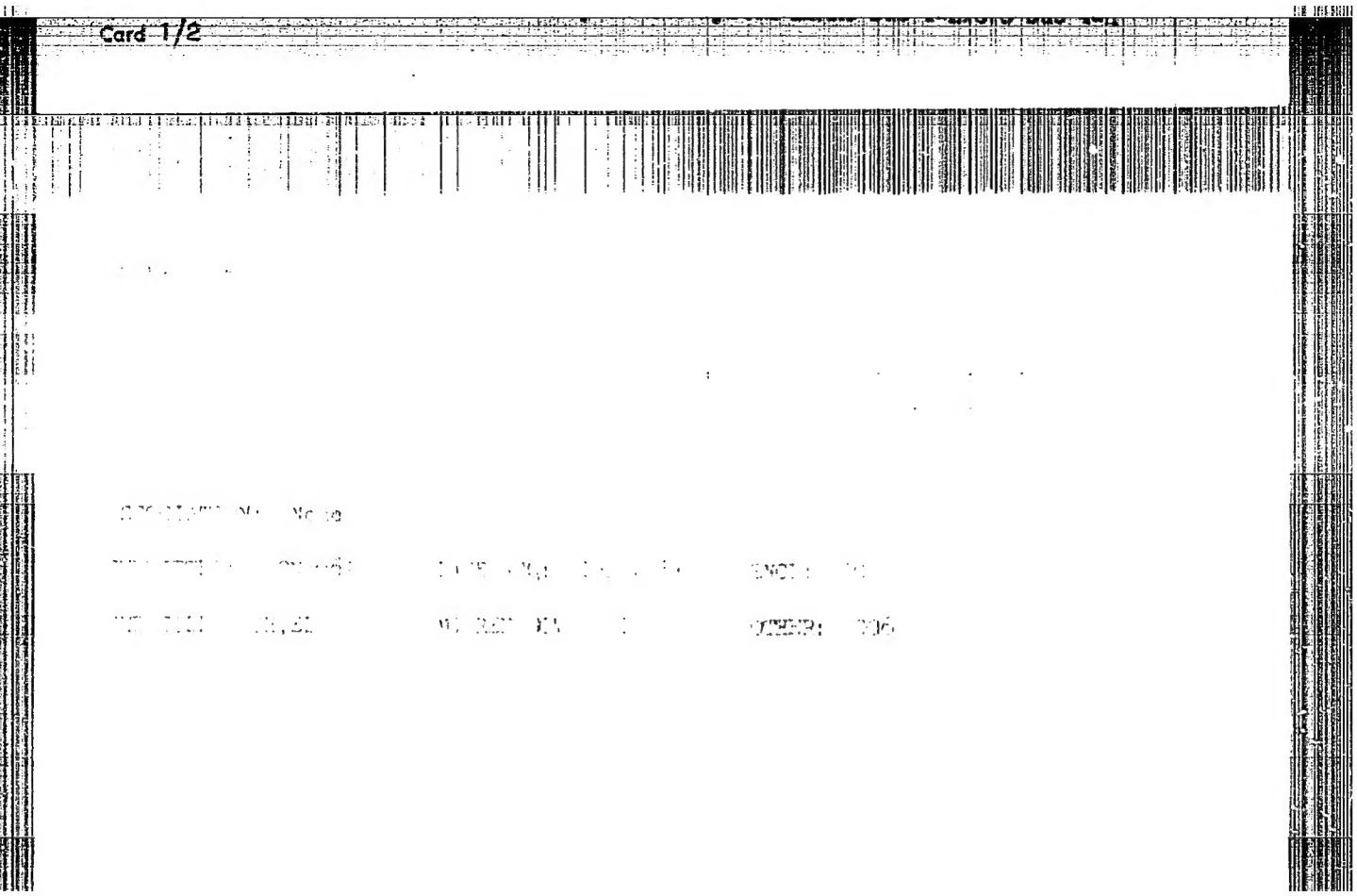




BABAYEVA, V.P.; ZINOV'YEV, A.A.

Effect of the concentration of perchloric acid on its thermal decomposition. Zhur.neorg.khim. 8 no.3:567-572 Mr '63. (MIRA 16:4)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova, AN SSSR.

(Perchloric acid)

BABAYEVA, V.P.; ZINOV'YEV, A.A.

Products of the thermal decomposition of anhydrous perchloric acid. Dokl.AN SSSR 149 no.3:592-594 Mr '63. (MIRA 16:4)

1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova. Predstavleno akademikom I.V.Tananayevym.

(Perchloric acid)

KRIVTSOV, N.V.; ZINOV'YEV, A.A.

Melting diagrams in the systems $LiClO_4$ - $Ca(ClO_4)_2$ and $NaClO_4$ - $Ca(ClO_4)_2$. Zhur.neorg.khim. 8 no.1:188-191 Ja '63. (MIRA 16:5)

1. Institut obshchey i neorganicheskoy khimii imeni N.S.Kurnakova AN SSSR.

(Perchlorates) (Melting points)

ZINOV'YEV, A.A.; KADYROV, V.

Physicochemical characteristics of Dzhargalan salt sources. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 2 no.11:33-37 '60. (MIRA 14:10)

(Dzhargalan—Salt)

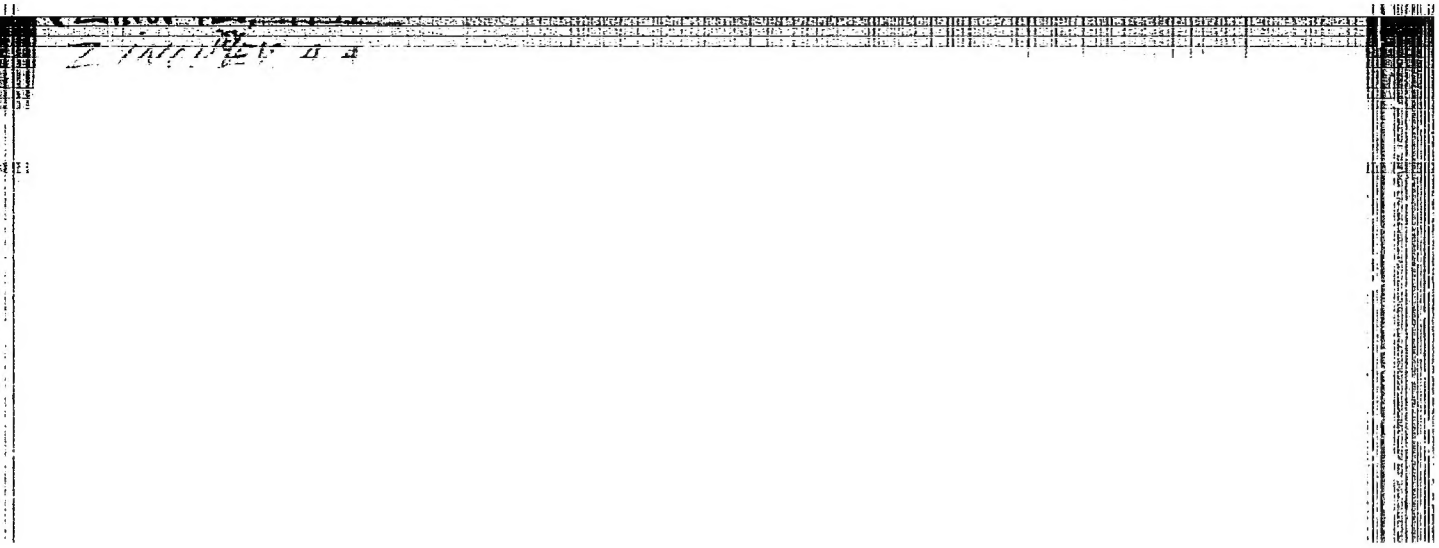
ZINOV'YEV, A.A., Cand Chem Sci—(diss) "Certain physico-chemical properties of Tyun'-Shan' salt deposits." Mos, 1958. 12 pp (Acad Sci USSR. Inst of Gen and Inorganic Chemistry im N.S. Kurnakov), 150 copies (KL,26-58,106)

-21-

ZINOV'YEV, A.A.

FRIDMAN, Ya.D.; ZINOV'YEV, A.A.; KHAKIMOV, Z.V., otvetstvennyy redaktor.

[Organization of the salt industry in the Kirghiz S.S.R.] Organizatsiia solepromyslov v Kirgizskoi SSR. Frunze, 1948. 28 p.(MLRA 7:11)
(Kirghizistan--Salt mines and mining) (Salt mines and mining--Kirghizistan)



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220013-0"

FRIDMAN, YA. D., AND ZINOV'YEV, A. A.

Glauberitic Type of Natural Solutions of Salts

The glauberitic type of solutions is formed in the lixiviation by natural waters of glauberite ($CaSO_4 \cdot Na_2SO_4$) from salt-bearing Tertiary deposits of the T'ien Shan. Solutions of the glauberitic type can be characterized by the ratio of the number of moles of $CaSO_4$ to the number of moles of Na_2SO_4; this ratio for the mentioned solutions is approximately 0.003 to 1. In the process of metamorphization the glauberitic solutions display a tendency to pass over to solutions of the chloride type. The water of Lake Issyk-Kul' is an example of solutions of the glauberitic type. (RZhGeol, No. 5, 1955) Tr. In-ta khimii Kirgizsk. fil. AN SSSR, No. 5, 1953, 3-8.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

FRIDMAN, Ya.D.; ZINOV'YEV, A.A.; LOPINA, M.D.; DRUZHININ, I.G., redaktor; TSYBINA, Ye.V., tekhnicheskiy redaktor

[Binary sulfates of sodium and calcium and ways of processing them in natural deposits] Dvoinye sul'faty natriia i kal'tsiia i puti pererabotki ikh prirodnykh otlozhenii. Frunze, Izd-vo Akademii nauk Kirgizskoi SSR, 1956. 133 p. (MLRA 10:1)
(Sodium sulfate) (Calcium sulfate)

DRUZHININ, I.G.; KHARAKOZ, A.Ye.; ZINOV'YEV, A.A., red.; SEMIKINA, T.F., red.izd-va; ANOKHINA, M.G., tekhn.red.

[Physicochemical characteristics of the peat of Kirghizistan] Fiziko-khimicheskaia kharakteristika torfa Kirgizii. Frunze, Izd-vo Akad.nauk Kirgizskoi SSR, In-t khimii, 1959. 95 p. (MIRA 13:7)

(Kirghizistan--Peat)

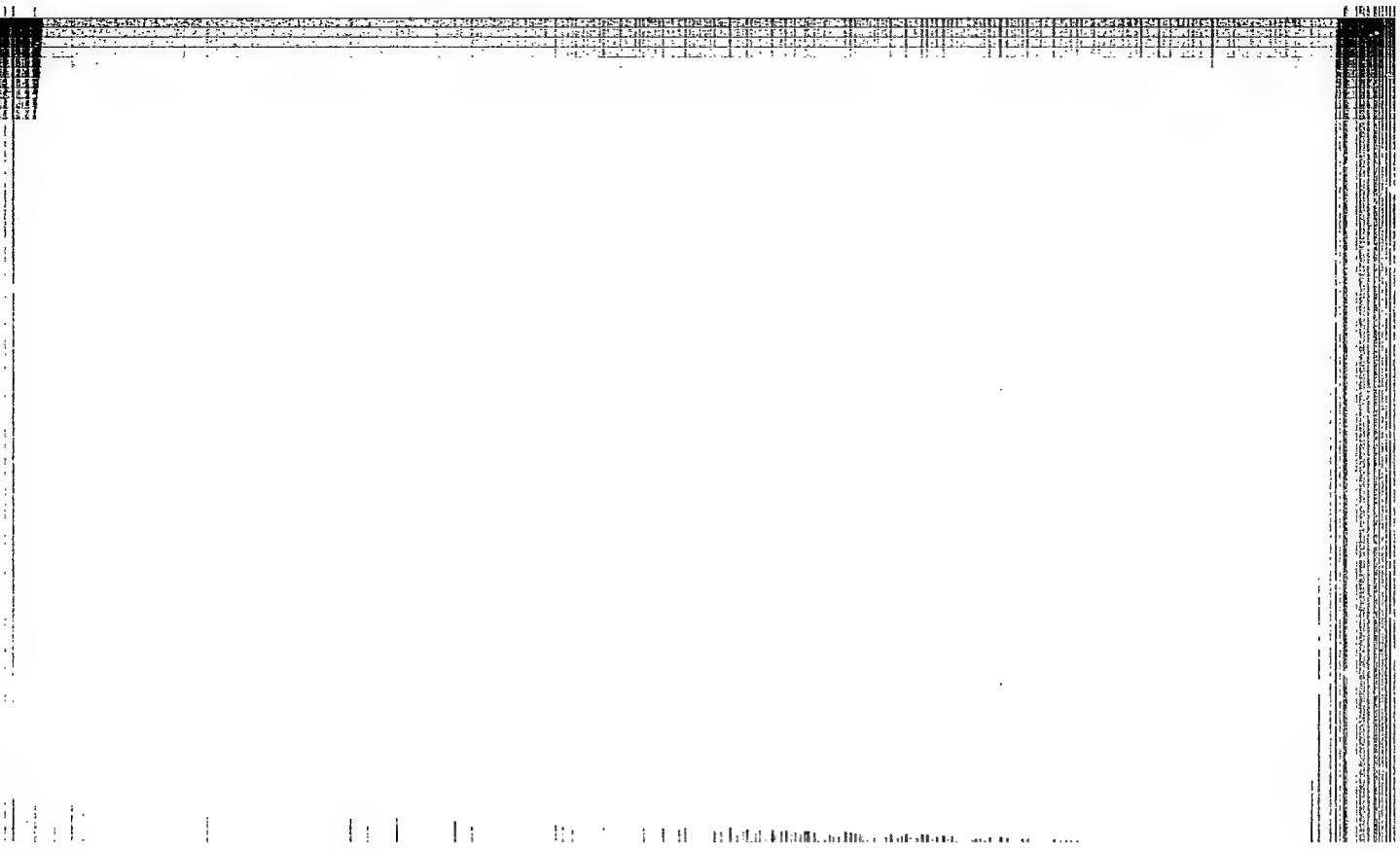
ZINOV'YEV, A. A.

Dissertation defended for the degree of Doctor of Philosophical Sciences at the Institute of Philosophy

"Logic Statements and Deductive Theory."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

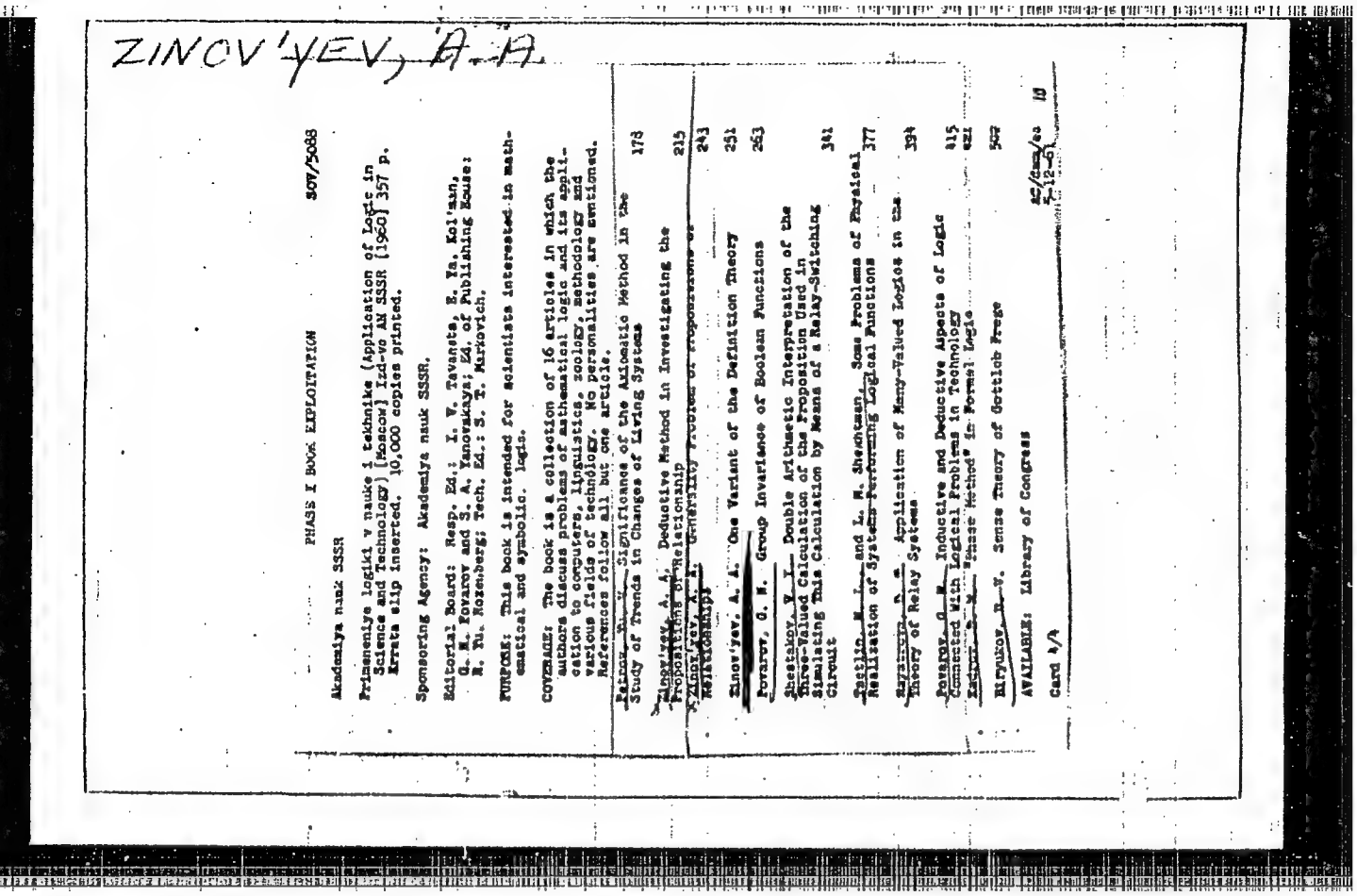
AUTHORS: Babayeva, V. P., Zinov'yev, A. A.



APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220013-0"

ZINOV'YEV, A., dots.

"Miracles" in enterprises of Tula Province. Izobr.i rats. no.11:47-48 N '59. (MIRA 13:3)
(Tula Province--Technological innovations)



ZINOV'YEV, A. A.

PHASE I BOOK EXPLOITATION SOV/5088

Akademiya nauk SSSR

Primeneniye logiki v nauke i tekhnike (Application of Logic in Science and Technology) [Moscow] Izd-vo AN SSSR [1960] 357 p. Errata slip inserted. 10,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR.

Editorial Board: Resp. Ed.: I. V. Tavanets, E. Ya. Kol'man, G. E. Povarov and S. A. Yanovskaya; Ed. of Publishing House: R. Ya. Rozenberg; Tech. Ed.: S. T. Markovich.

PURPOSE: This book is intended for scientists interested in mathematical and symbolic logic.

COVERAGE: The book is a collection of 16 articles in which the authors discuss problems of mathematical logic and its application to computers, linguistics, zoology, methodology and various fields of technology. No personalities are mentioned. References follow all but one article.

Table of Contents:

Petrov, B. ... Significance of the Axiomatic Method in the Study of Trends in Changes of Living Systems 173

Zinov'yev, A. A. Deductive Method in Investigating the Propositions of Relationship 215

Zinov'yev, A. A. [illegible] 243

Zinov'yev, A. A. One Variant of the Definition Theory 251

Povarov, G. N. Group Invariance of Boolean Functions 263

Shestakov, V. I. Double Arithmetic Interpretation of the Three-Valued Calculation of the Proposition Used in Simulating This Calculation by Means of a Relay-Switching Circuit 341

Shtokman, M. I. and L. M. Shevtsova. Some Problems of Physical Realization of Systems Performing Logical Functions 377

Baranov, D. S. Application of Many-Valued Logics in the Theory of Relay Systems 394

Povarov, G. N. Inductive and Deductive Aspects of Logic Connected With Logical Problems in Technology 415

Zaitsev, B. V. "Sense Method" in Formal Logic 421

Biryukov, B. V. Sense Theory of Gottlob Frege 502

AVAILABLE: Library of Congress

Card 4/4

ZINOV'YEV, A.A., doktor tekhn.nauk

Discussion of the selectivity of wil hydrogenation. Masl.-zhir.prom. 28 no.11:13-19 N '62. (MIRA 15:12)
(Hydrogenation) (Oils and fats)

ZINOV'YEV, A. A. (Moscow)

"A General Theory of Determination and the Possibility of its Application to the Theory of the Machines Carrying Out Translation."

Theses - Conference on Machine Translations, 15 - 21 May 1958, Moscow.

ZINOV'YEV, Aleksandr Aleksandrovich; TAVANETS, P.V., doktor filos. nauk, otv. red.; ROZENBERG, R.Yu., red. izd-va; UL'YANOVA, O.G., tekhn. red.

[Propositional calculus and the theory of deduction] Logika vyskazyvanii i teoriia vyvoda. Moskva, Izd-vo Akad. nauk SSSR, 1962. 151 p. (MIRA 15:1)
(Logic, Symbolic and mathematical)

BOKOV, I.I.; PYKHOV, E.V.; ZINOV'YEV, A.F.; MEL'MAN, R.P.

Wear testing machine for wire. Zav. lab. 30 no.6:755 '64
(MIRA 17:8)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii.

RAKOCH, G.M.; SALIH, A.A.; ZINOV'YEV, A.F.; PILIPCHUK, N.A.; KOCHERGIN, A.I.; TULENKOV, I.P.; SHARAPOV, S.F.; VOLKOVA, V.S.; ROGALIS, Yu.P.; VIASOV, V.A.

Directions for the technical improvement of the electrolysis of zinc. TSvet. met. 38 no.5:22-25 My '65.

(MIRA 18:6)

VOLKOVICH, A.V., inzh.; KOCHERGIN, A.I., inzh.; GREKOV, S.D., inzh.; ZINOV'YEV, A.F., inzh.; TETENEVA, M.S., inzh.

Mechanizing the production of cadmium sulfate. Khim. i neft. mashinostr. no.1:39 Jl '64. (MIRA 17:12)

SOV/138-59-3-1/16

AUTHOR: Zinov'yev, A.F.

TITLE: The Way to Further Economy in the Construction of Synthetic Rubber and Organic Chemical Factories (Puti dal'neyshey ekonomii v stroitel'stve zavodov kauchuka i organicheskogo sinteza)

PERIODICAL: Kauchuk i rezina, 1959, Nr 3, pp 1-5 (USSR)

ABSTRACT: This leader quotes the 1958 Communist Party directives on expansion of production of synthetic fibres, plastics and other synthetic materials. The main proportions of total capital expenditure in these fields are, 17% for production of butadiene from butane, 20% for production of ethylene from petroleum gas and 19% for production of isoprene, i.e. 56% of the total capital expenditure on synthetic chemicals will be devoted to these projects. The capital cost of plant for producing butadiene by two-stage dehydrogenation of butane is shown to be about two thirds that for production of butadiene through synthetic ethyl alcohol. Concentration of production by dehydrogenation will be achieved by building a few very large plants rather than a number of small ones, by simplifying the external construction of fractionating columns and

Card 1/4

The Way to Further Economy in the Construction of Synthetic Rubber and Organic Chemical Factories

heat exchangers, by introducing complete automatic control incorporating new methods of gas analysis, by going over to turbo-compressors, and by using a system of moving powdered catalyst in the dehydrogenation plant. Other economies can be effected by steam stripping of unconverted hydrocarbons in the preliminary extraction of butadiene from the latex. The introduction of oil-filled rubbers will lead to 15% reduction in capital cost of plant as compared with unfilled types. Use of colophony soap as an emulsifier during polymerization is less expensive than present "nekal" system, and involves less cost on cleaning waste washing liquor. The extraction of rubber from latex will be carried out from material in the form of crumbs instead of using large ribbon forming plant. The production of isoprene monomers by dehydrogenation of isopentane should enable a 30% reduction in

The Way to Further Economy in the Construction of Synthetic Rubber and Organic Chemical Factories

plant cost as compared with production through isobutane and methane. Introduction of more advanced single-stage dehydrogenation of isopentane can produce further economy. Further work is required on continuous processes for polymerization of isoprene. The capital cost of plant to produce ethylene from petroleum gas can be reduced by improving absorption plant for gas separation, combining the separation and rectification plants using powerful propane-cooled turbo-compressors, improvement in heat exchange plant and also the use of reflux pumps for liquified hydrocarbons. Development of plant for gas separation by condensation is required. The maximum use must be made of the liquid hydrocarbon fractions and the amount of "dry" gases from cracking be reduced. General observations are given on organisation of construction, phasing of service works and planning schedules. The importance of reducing man-power requirements is emphasised by the statement that the capital value of housing and community building per workman is 25 000 to 30 000 roubles. The economy of designing plant to operate under

The Way to Further Economy in the Construction of Synthetic Rubber and Organic Chemical Factories

open air conditions is stressed. The article concludes with remarks on the benefits from use of natural gas, now becoming more widely available, as a raw material for production of ethylene rather than the "ballast" cracking gas now used. More use should be made of liquified gases. The possibilities of thermal energy conservation, by integration of electric generation with plant, must be exploited.

ASSOCIATION: Gosudarstvennyy proyektnyy i nauchno-issledovatel'skiy institut promyshlennosti sinteticheskogo kauchuka (State Planning and Research Institute for Synthetic Rubber Industry)

ZINOV'YEV, A.F.

Problems in the technological outline of the new processes in the manufacture of synthetic rubber. Kauch. i rez. 22 no.6:1-5 Je '63. (MIRA 16:7)

1. Gosudarstvennyy institut po proyektirovaniyu zavodov kauchukovoy promyshlennosti.
(Rubber, Synthetic)

BEREZHKOV, P.I.; ZINOV'YEV, A.F.

Mechanization of the preparation of metals for rolling and of finishing the rolled products. Biul. tekh.-ekon. inform. no. 4:8-11 '61. (MIRA 14:5)
(Rolling (Metalwork)—Technological innovations)

ZIHOVIYEV, A.F.

Over-all modernization of designing. Khim. prom. no.9:12-13 S '61. (MIRA 15:1)
(Factories--Design and construction)

ZINOV'YEV, A.F., YAKOVLEV, K.A.

Basic trends in the utilization of natural and casing-head gases in the chemical industry in 1960 and in the coming years of the seven-year plan. Gas.prom. 5 no.4:30-33 Ap '60.
(MIRA 13:8)

(Gas, Natural) (Chemical industries)

ZINOV'YEV, A.F.

Mechanization of cleaning and finishing departments. Metallurg 6 no.8:34-35 Ag '61. (MIRA 14:8)

1. Nauchno-issledovatel'skiy institut metallurgii Chelyabinskogo sovnarkhoza.
(Metal cleaning) (Metals—Finishing)

ZINOV'YEV, Aleksey Fedorovich; SVET, Ye.B., red.

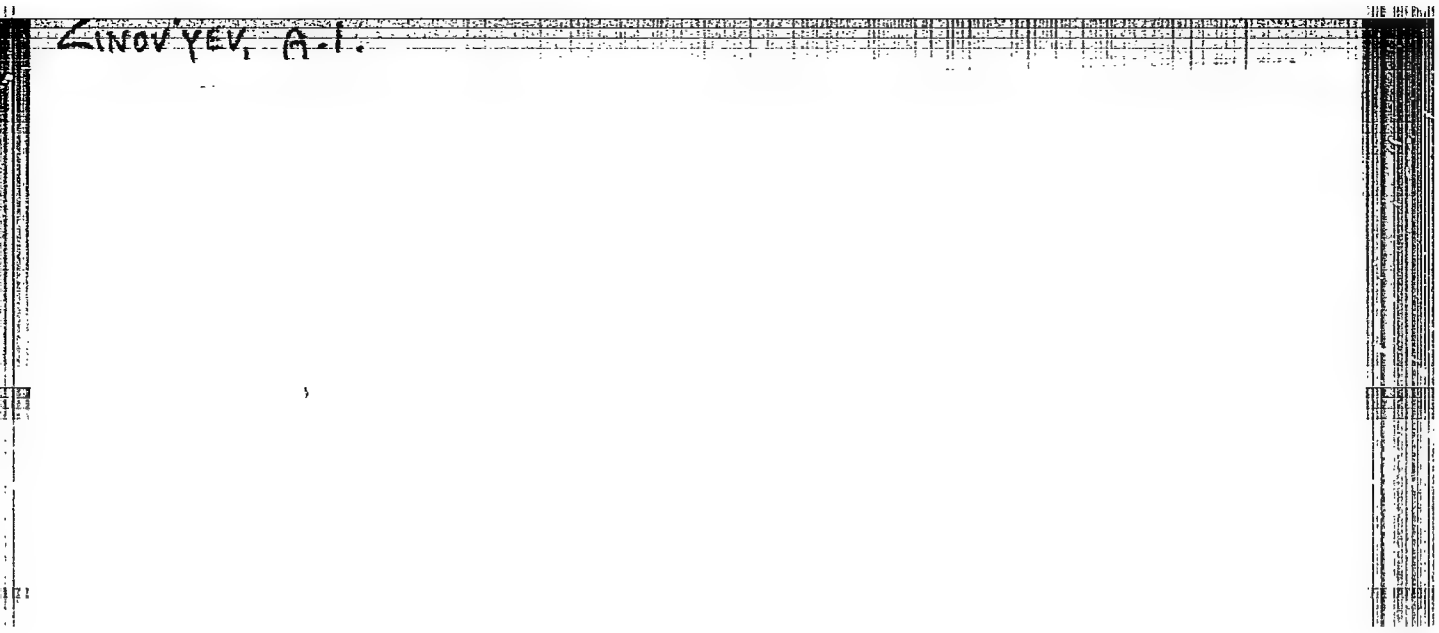
[Flame scarfing of rolling mill billets] Ognevaia zachistka prokatnykh zagotovok. Cheliabinsk, IUzhno-Ural'skoe knizhnoe izd-vo, 1964. 26 p. (MIRA 18:4)

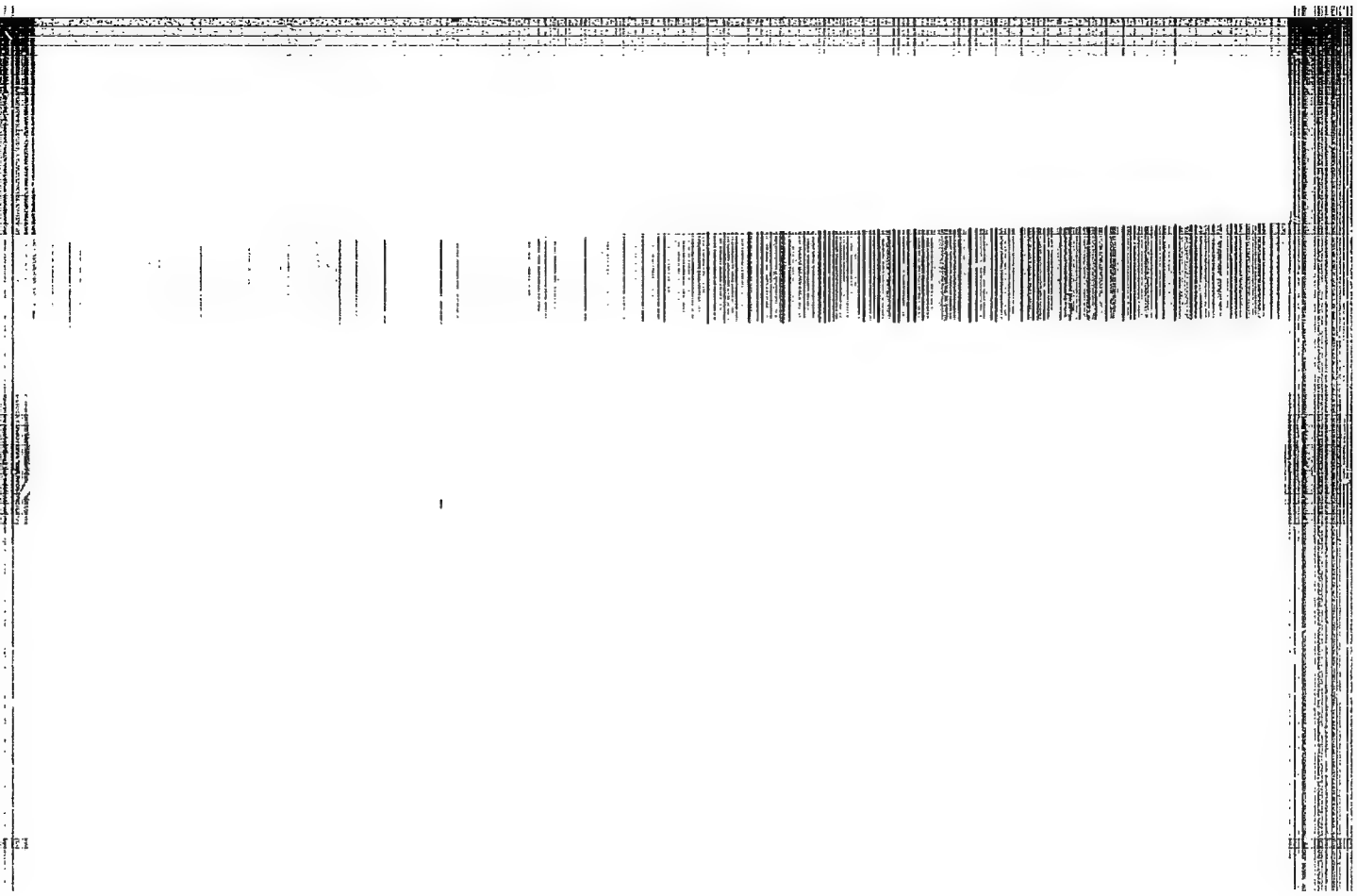
ZINOV'YEV, A.G., fel'dsher (Moscow)

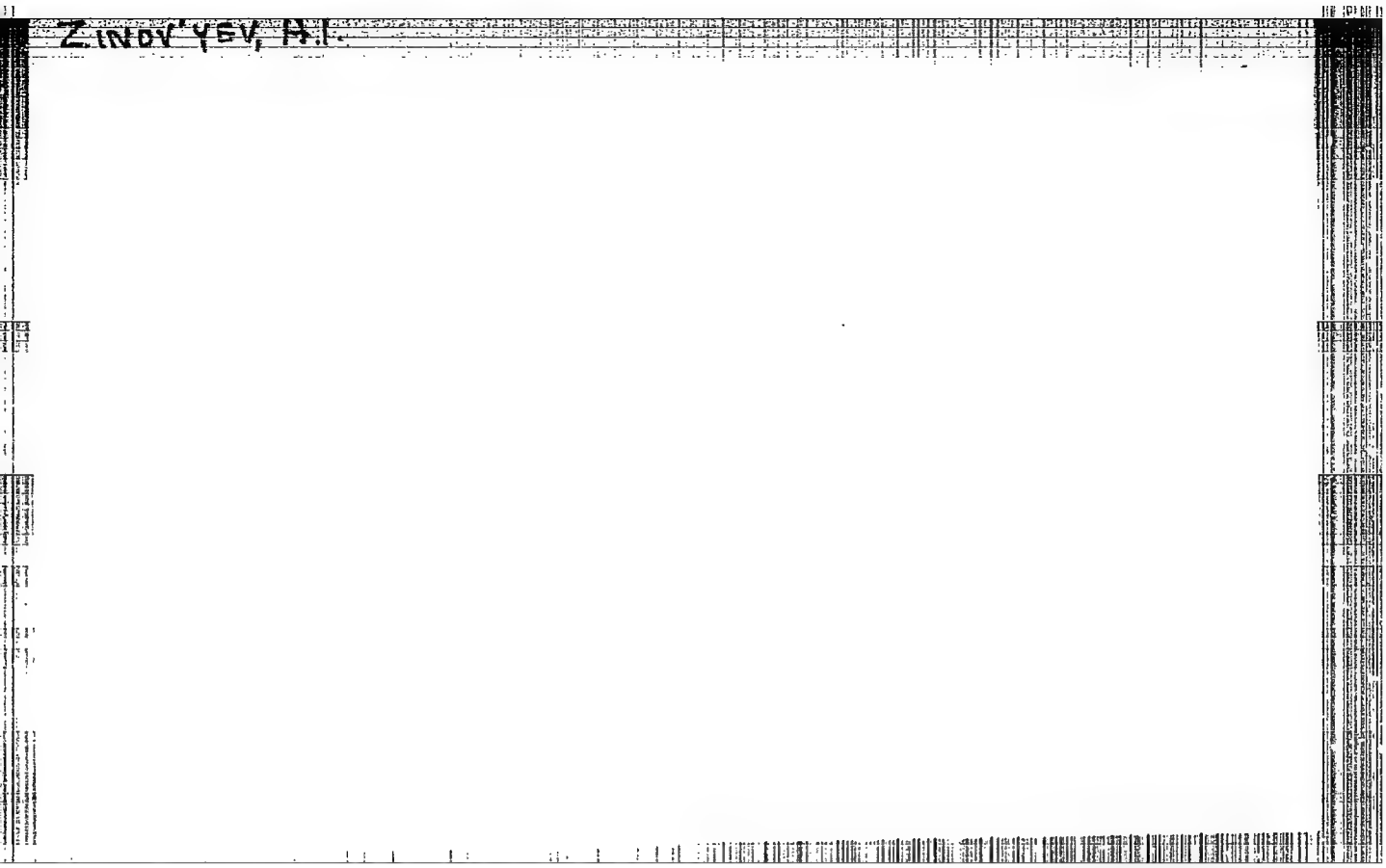
Health education activities at feldsher-midwife centers.
Fel'd i akush. 23 no.5:55-56 My'58 (MIRA 11:6)
(HEALTH EDUCATION)

ZINOV'YEV, A. I.

"Automatic Oxygen Analyzer," Kislorod, No. 2, 1945.







ZIMOVIYEV, A.I.; PRASS, B.Yu., spetsredaktor; RESH, G.S., redaktor; GOTLIB, E.M., tekhnicheskiy redaktor

[Technology of common and iodized salt] Tekhnologiia vyvarochnoi i iodirovannoi soli. Moskva, Pishchepromizdat, 1957. 85 p. (Salt) (MIRA 10:9)

ZINOV'YEV, A.I.

Recomposition factor of the sedimentary rocks of the Emba region. Geol. nefti i gaza 8 no.4:46-49 Ap '64. (MIRA 17:6)

1. Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy geologorazvedochnyy institut.

YURGANOV, N.N.; ZINOV'YEV, A.I.

Apparatus for determining organic carbon in rocks by combustion in the furnaces of Mars. Trudy VNIGRI no.123:205-208 '58. (MIRA 11:12)

(Rocks--Analysis) (Carbon)

YURGANOV, N.N.; ZINOV'YEV, A.I.

Method of analyzing the acid-soluble part of a weighted portion of sedimentary rocks. Trudy VNIGRI no.123:209-213 '58.
(MIRA 11:12)

(Rocks--Analysis)

ZINOV'YEV, A.I.

Method of working up data of chemical analysis of rocks to determine the conditions of sediment formation. Trudy VNIGRI no.123:214-217 '58. (MIRA 11:12)
(Sediments (Geology))

ZIKOV'YEV, A.I.; YURGANOV, N.N.

Trilenometric determination of the amount of calcium and magnesium in natural waters and rocks. Trudy VNIGRI no.123: 218-223 '58. (MIRA 11:12)
(Rocks--Analysis) (Calcium) (Magnesium) (Water--Analysis)

ZINOV'YEV, A.I.

Some methods for the investigation of sedimentary rocks and formation waters. Trudy VNIGRI no.123:224-232 '58. (MIRA 11:12)
(Water, Analysis)

YURGANOV, N.N.; ZINOV'YEV, A.I.; SVERCHKOV, G.P.

Geochemical characteristics of clay-silt deposits of the West Siberian Lowland in connection with their petroleum and gas bearing capacities. Trudy VNIGRI no.155:249-269 '60. (MIRA 14:1)
(Siberia, Western--Clay--Analysis)
(Petroleum geology) (Gas, Natural--Geology)

YURGANOV, N.N.; ZINOV'YEV, A.I.

The dissolving rate of calcite, dolomite, and magnesite in acids of various concentration. Trudy VNIGRI no.155:313-318 '60. (MIRA 14:1)

(Alkaline earth carbonates) (Solubility)
(Acids)

ZINOV'YEV, A.I.; SOLOV'YEVA, N.S.

Mercurimetric method of determining chlorine ions with a new color indicator. Trudy VNIGRI no.155:325-328 '60. (MIRA 14:1)
(Mercurimetry) (Chlorine) (Rocks--Analysis)

ZINOV'YEV, A.I.

Improving some chemical methods for the investigation of sedimentary rocks and oil field waters. Trudy VNIGRI no.174:247-257 '61. (MIRA 14:12)

(Rocks--Analysis)
(Oil field brines--Analysis)

ZINOV'YEV, A.I.

Multitubular unit for the determination of organic carbon.
Trudy VNIGRI no.174:258-259 '61. (MIRA 14:12)
(Rocks--Analysis)
(Carbon)

SOV/58-59-9-20906

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 9, p 210 (USSR)

AUTHOR: Zinov'yev, A.L.

TITLE: A Two-Crystal Circuit of Temperature Compensation

PERIODICAL: Tr. Mosk. energ. in-ta, 1958, Nr 31, pp 148 - 170

ABSTRACT: The author examines a method of decreasing the temperature instability of quartz-crystal oscillators by means of compensating for variations in the resonance frequency of the quartz resonator with the aid of a similar resonator having a temperature coefficient of frequency (TCF) with a sign opposite to that of the first. In the case of certain parametric relations, both resonators, placed in identical temperature conditions and coupled to the generator circuit, can maintain a stable frequency of self-vibrations. Utilizing the temperature compensation of the crystals permits a substantial reduction in the requirement of temperature stability. The investigation is carried out with a bridge circuit as an example. In order to assure the reciprocal temperature compensation of the crystals, a circuit is used that consists of two symmetrical bridges having a pair of arms in common. On the basis of

Card 1/2

A Two-Crystal Circuit of Temperature Compensation SOV/58-59-9-20906

the expressions obtained for the magnitude of the feedback brought about by the complex bridge, an estimate is made of the permissible magnitude of reciprocal mistuning between the crystals, which is due to the inaccuracy of the initial arrangement and to temperature drift. The conditions of oscillation-frequency stability are determined for various cases of mistuning, as well as the permissible limits of temperature variation for a symmetrical circuit. Expressions are found for the oscillation frequency of a two-crystal oscillator and for the TCF of the oscillator in relation to the TCF of the crystals. The author proposes a method of determining the scattering of the parameters of the crystals. The expressions obtained for the TCF of crystals can serve as computations when the crystals are grouped in pairs by being selected from a sufficiently large chunk. The author gives a concrete example of the determination of the permissible parameters of crystals.

V.V. Karizhenskiy

Card 2/2

- ZINOV'YEV, A.L., dots.

Dissertations for the degree of candidate of sciences at the Moscow Institute of Power Engineering (Radio Engineering Faculty). Izv.vys.ucheb.zav.; radiotekh. 2 no.3:379-380 My-Je '59. (MIRA 13:2)

1. Moskovskiy ordena Lenina energeticheskiy institut, radiotekhnicheskiy fakul'tet.
(Bibliography--Information theory)

ZINOV'YEV, A.L., kand. tekhn. nauk, dots.

Temperature compensation circuit with two quartz crystals. Trudy MEI no.31:148-170 '56 (MIRA 13:3)
(Oscillators, Crystal)

ZINOV'YEV, A.L., kand. tekhn. nauk, dots.

Coefficient of transmission of an aperiodic differentially connected network with distributed constants. Trudy MEI no.31:171-178 '56 (MIRA 13:3)

(Pulse techniques(Electronics))

ZINOV'YEV, A.L., dotsent; GOYZHEVSKIY, V.A., dotsent

Defense of dissertations. Izv. vys. ucheb. zav.; radiotekh. 3 no.6:671 N-D '60. (MIRA 14:8)
(Bibliography--Oscillators, Electric)
(Bibliography--Frequency regulation)

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SOV/142-2-3-22/27

9(3,9)

AUTHOR: Zinov'yev, A.L., Docent

TITLE: Theses for Acquiring the Scientific Degree of Candidate of Sciences

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, 1959, Vol 2, Nr 3, pp 379-380 (USSR)

ABSTRACT: B.A. Varshaver defended the thesis "Some Problems of the Theory of Discrete Signal Transmission With Fluctuation Noises" (Nekotoryye voprosy teorii peredachi diskretnykh signalov pri flyuktuatsionnykh pomekhakh) for acquiring the scientific degree of Candidate of Sciences. The thesis was defended on February 28, 1958, against the official opponents Professor, Doctor of Technical Sciences Ye. I. Manayev and Candidate of Technical Sciences A.M. Petrovskiy. The author of the thesis considered some problems of the theory of transmitting discrete signals in the presence of fluctuation noises. For different keying methods, he determined: traffic capacity of the communication channel, upper limit of transmitting speed and noise-resistance with codes of

Card 1/4

Theses for Acquiring the Scientific Degree of Candidate of Sciences

various combinations. The solution of the aforementioned problems is based on data obtained by K.Ye. Shennon for the general theory of communication ratios and the theory of potential noise-resistance of V.A. Kotel'nikov. Using the research results, for a number of cases an estimation may be furnished of ways of improving communication systems, employing signals with a different number of discrete values for transmitting information. - O.S. Chentsova defended the thesis "Some Problems of Detecting With Semiconductor and Vacuum Diodes" (Nekotoryye voprosy detectirovaniya poluprovodnikovymi i vakuumnymi diodami). The thesis was [illegible] defended on May 9, 1958, against the official opponents Professor, Doctor of Technical Sciences N.I. Chistyakov and Candidate of Technical Sciences M.V. Blagoveshchenskiy. The thesis was written under the guidance of Professor, Doctor of Technical Sciences L.S. Gutkin. The author of the thesis discusses problems, connected with the application of semiconductor diodes as detectors of pulse and continuous signals in radio equipment. Further, some problems of the analysis of detecting pulse signals and noises are presented. New methods of calculating semiconductor diodes were obtained. A

Card 2/4

Theses for Acquiring the Scientific Degree of Candidate of Sciences

new transient process analysis method was suggested for circuits of the resonance amplifier-detector type. The author established a formula for the root-mean-square magnitude of the voltage at the output of a real electronic detector. G.A. Komarov defended the thesis "Video Correction Circuits Which Are to Be Described as Characteristic Equations of the 5th and 6th Order" (Skhemy videokorrektsii, opisyvayemyye kharakteristicheskimi uravneniyami 5 i 6 stepeney) for acquiring the scientific degree of a Candidate of Sciences. The thesis was written under the guidance of Professor, Doctor of Technical Sciences G.V. Braude. The defense was held on June 27, 1958 against the official opponents Professor, Doctor of Technical Sciences O.B. Lur'ye, Docent, Candidate of Technical Sciences I.G. Mamonkin. The author of the thesis investigated four-pole correction circuits of higher frequencies, containing three direct capacitances which are to be described by characteristic equations of the 5th and 6th order. An expression for the transmission factor was obtained for each of the circuits, magnitudes of correction parameters were found, providing the production of an optimum amplitude-frequency cha-

Theses for Acquiring the Scientific Degree of Candidate of Sciences

racteristic and an optimum phase-frequency characteristic. Transient characteristics were found, obtained with optimum harmonics characteristics. The effectiveness of each of the circuits under consideration was estimated. The settling time, compared to 4th order circuits, amounts to 20-30% for 6th order circuits and 10-12% for 5th order circuits. The method of equal meduli, suggested by O. B. Lur'ye, for determining correction circuit parameters, described by characteristics equations of the 4th order inclusively, was extended by the author of the thesis to circuits described by characteristic equations of a higher order.

ASSOCIATION: ,Moskovskiy ordena Lenina energeticheskiy institut - radiotekhnicheskiy fakul'tet (Moscow - Lenin Order - Institute of Power Engineering - Radio Engineering Department)

Card 4/4

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A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, p. 246, # 30291

AUTHOR: Zinov'yev, A. L.

TITLE: Double-Quartz Circuit with Temperature Compensation

PERIODICAL: Tr. Mosk. energ. in-ta, 1958, No. 31, pp. 148-170

TEXT: A method of frequency stabilization of a quartz oscillator is analized. The method is based on temperature compensation of resonance frequency of the quartz resonator by means of a similar resonator with a frequency temperature coefficient (FTC) of the opposite sign. The analysis is carried out on an example of a bridge circuit containing 2 mutually compensating quartzs, connected to symmetrical bridge arms. An expression for the magnitude of feedback realized through the bridge is found. An evaluation is made of the admissible magnitude of mutual detuning at which the fixing capability of the bridge is preserved for cases both of identical quartzs and quartzs with essentially different parameters. It is shown that in case of a symmetrical circuit the admissible detuning must be

Card 1/2

Double-Quartz Circuit with Temperature Compensation

much (5-10 times) narrower than the width of the pass-band of the resonator. A method of determining the admissible spread of quartz parameters (ΔTC_{adm}) is suggested.

I. N. L.

Translator's note: This is the full translation of the original Russian abstract.

ZIKOV'YEV, A.L., dots.

In the Moscow Power Engineering Institute; department of radio engineering. Izv. vys. uchob. zav.; radiotekh. no.2:261-262 Mr-Ap '58. (MIRA 11:5)

1. Moskovskiy ordena Lenina energeticheskiy institut, radiotekhnicheskiy fakul'tet.

(Bibliography--Radio)

SOV/142-58-5-16/23

9(3)

AUTHOR: Zinov'yev,A.L., Candidate of Technical Sciences, Docent

TITLE: Scientific Research in the "Vuz". Brief Communication. Moscow Institute of Power Engineering (Radio Engineering Department)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1958, Nr 5, pp 621-622 (USSR)

ABSTRACT: The article gives a short summary of the research done by the institute. 1) Dispatcher communication apparatus; done by Senior Instructor S.A. Marinov, Senior Engineer V.P. Vasil'yev, N.G. Petrov, B.N. Pavlov, T.A. Lokshina. Scientific Supervisor was Candidate of Technical Sciences N.K. Svistov; 2) Investigation of a Generator with Retarding Grid; done by Candidate of Technical Sciences G.M. Utkin and Assistent Kozlovskiy. Scientific Supervisor was Candidate of Technical Sciences DocentYe.P. Korchagina; 3) Investigating an Output Stage of a Decimeter Wave Transmitter; done by Engineer A.A. Turkin. Scientific Supervisor was Candidate of Technical Sciences Docent Ye.P. Korchagina; 4) Investigation of a Phase Detector at Multiple Frequencies; done by V.M. Safonov.

Card 1/2

Scientific 30V/142-58-5-16/23
/Research in the "Vuz". Brief Communication. Moscow Institute of Power Engineering (Radio Engineering Department)

Scientific Supervisor: Doctor of Technical Sciences Professor S.I. Yevtyanov; 5) Investigation of two Schemes of a Phase-Impulse Detector; done by V.M. Safonov. Scientific Supervisor: Doctor of Technical Sciences Professor S.I. Yevtyanov; 6) Phasing Self-Tuning of Frequency with Filters of the Second Order; done by the same group as 5); 7) Autogenerators, Stabilized on Quartz Harmonics; done by Assistent L.A. Komyev. Scientific Supervisor: Doctor of Technical Sciences Professor S.I. Yevtyanov; 8) Autogenerator with Quartz in the Circuit; done by Assistent V.P. Zhukhovitskaya. Scientific Supervisor: Doctor of Technical Sciences Professor S.I. Yevtyanov.

SUBMITTED: February 15, 1958

Card 2/2

KARDASH, A.N.; ZINOV'YEV, A.N.

Semiautomatic tool for pipe bending. [Suggested by A.N.Kardash, A.N.Zinov'ev]. Rats. i izobr. predl. v stroi. no. 4:79-81 '57. (MIRA 11:8)

(Pipe bending)
(Machine tools)

ZINOV'YEV, A. P. and ORCCHKO, D. I.

"Principles of Control of Reaction Equipment for Hydrogenation of Fuels" Transactions of the All-Union Scientific Research Institute of Synthetic Liquid Fuel and Gas, Moscow, Gostoptekhizdat, 1950, volume II.

ZINOV'EV, A. P.

Perevozki voisk po zheleznoi doroge. [Troop transportation by rail]. Pod red. N. V. Nikitina i S. M. Kulikovskogo. Kiev, Na varti, 1935. 102 p. maps
DLC: UC280.Z5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

ZINOV'YEVA, A.P.

Integral kinetic equations for a chemical reaction in combination with mass transfer. Khim. i tekh. topl. i masel 9 no.7:6-8 Jl '64.
(MIRA 17:12)

ZINOV'EV, A. S. Cand Med Sci -- (diss) "Material on the morphological substratum of cardiac decompensation in rheumatism." Omsk, 1957. 18 pp; (Ministry of Public Health RSFSR, Omskiy State Medical Inst im M. I. Kalinin); 200 copies; free; (KL, 19-60, 138)

MAKOKHA, N. S., dotsent; ZINOV'YEV, A. S., kand. med. nauk

Case of papillary cystadenoma of the pancreas. Khirurgiia 37 no.7:140-142 Jl '61. (MIRA 15:4)

1. Iz Omskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach K. I. Shekhurdina)

(PANCREAS—TUMORS)

SAVCHENKO, Yu.N., dotsent; ZINOV'YEV, A.S., dotsent

Epidural intracranial cholesteatomas. Trudy OMI no.54:
21-25 '64. (MIRA 18:9)

1. Iz kafedry nervnykh bolezney (zav.- prof. N.I. Savchenko) i kafedry patologicheskoy anatomii (zav. zasluzhennyy deyatel' nauki RSFSR prof. I.S. Novitskiy) Omskogo meditsinskogo instituta.

ZINOV'YEV, A.S.; KOVALENKO, V.L.; MOLODYKH, D.N.; BRYSOVA, L.I.

False aneurysm of the aorta in pulmonary tuberculosis. Probl. tub. 42 no.10:83-84 '64. (MIRA 18:11)

1. Kafedra patologicheskoy anatomii (zav.- prof. I.S. Novitskiy) Omskogo meditsinskogo instituta.

ZINOV'YEV, A.S.; SAVCHENKO, Yu.N.

Adenoma of the islands of Langerhans. Vrach. delo no.12:124-125 D '60. (MIRA 14:1)

1. Omskaya oblastnaya klinicheskaya bol'nitsa.
(PANCREAS—TUMORS)

ZINOV'YEV, A. S., kand. med. nauk; ZUBOV, N. A.

Two cases of primary cancer of the liver in children. Pediatriia no.11:65-67 '61. (MIRA 14:12)

1. Iz patologoanatomicheskogo otdeleniya (zav. A. N. Zakharova) Tyumenskoy oblastnoy bol'nitsy (glavnyy vrach A. A. Moiseyenko)

(LIVER--CANCER) (CHILDREN--DISEASES)

ZUEOV'YEV, A.S., kand.med.nauk; ZUEOV, N.A.

Pathological anatomy of so-called idiopathic myocarditis.
Vrach. delo no.2:133-134 F '62. (MIRA 15:3)

1. Patologoanatomicheskoye otdeleniye (nav. - A.N. Zakharova) Tyumenskoy oblastnoy bol'nitsy.
(HEART--MUSCLE--DISEASES)

Country : USSR S
Category: Human and Animal Morphology (Normal and Pathological). Pathological Anatomy.

Abs Jour: RZhBiol., No 2, 1959, No 7657

Author : Zinov'yev, I. S.
Inst : Omsk Medical Institute
Title : Materials on the Problem of Morphological Substrate of Cardiac Decompensation in Rheumatism and Protracted Septic Endocarditis

Orig Pub: Tr. Omskogo med. in-ta, 1957, No 22, 121-158

Abstract: In rheumatic carditis in children, in the period of the first attack or in aggravation of the disease, in rheumatic myocarditis of adults as well as in protracted septic endocarditis, the progressing of cardiac insufficiency is a consequence of diffuse nonspecific

Card : 1/4

Country : USSR
Category: Human and Animal Morphology (Normal and Pathological). Pathological Anatomy.

Abs Jour: RZhBiol., No 2, 1959, No 7657

exudative-infiltrative inflammation of interstitial tissue of myocardium with transition to coronary vessels. The inflammatory-dystrophic changes in extra - and intracardiac nerve apparatus and structural changes of the argyrophillic body of myocardium (coarsening, hyperplasia, macro-focal and diffuse collagenisation of longitudinal and transverse argyrophil fibers) also contribute to the development of cardiac insufficiency. In sepsis lenta the enumerated changes are more strongly express than in rheumo-carditis. In cases when aggravation of rheumo-carditis appeared in the

Card : 2/4

Country : USSR S
Category: Human and Animal Morphology (Normal and Pathological). Pathological Anatomy.

Abs Jour: RZhBiol., No 2, 1959, No 7657

development of inflammatory changes of endocardium only, appearances of sclerosis in myocardium were discovered. As foundation of cardiac decompensation disturbances of extra- and intra-cardial nerve apparatus, sclerotic changes of coronary vessels, disturbance of structure of argyrophillic body of myocardium were found. The enumerated factors contribute to the disorder of metabolic processes which leads to development of dystrophic changes in the muscular syncytium. The complex of interconnected patholoģo-morphological changes, which arise in the interstitial tissue of myocardium, nerve apparatuses of the heart, coronary vessels

Card : 3/4

ACC NR: AP6032352 SOURCE CODE: UR/0091/66/000/006/0005/0006

AUTHOR: Belyakov, Y. G.; Zinov'yev, A. V.

ORG: none

TITLE: Device for locating short-circuits on 6-10 KV overhead lines 15

SOURCE: Energetik, no. 6, 1966, 5-6

TOPIC TAGS: electric power transmission, electric measuring instrument, electronic amplifier

ABSTRACT: The article describes a device for locating points at which a power distribution system with isolated neutral may be grounded. The direction along which a fault has occurred is determined on the basis of zero-sequence current measurements by the two-loop method, while the actually grounded transmission pole is found by the single-loop method. The device is portable and consists of two basic components: a measuring instrument and an amplifier, both connected by a flexible shielded cable. All design parameters are given and the equivalent circuit diagram is shown: a millivoltmeter-microammeter connected through a filter to two coils in parallel; both coils are wound on silicon steel cores and their inductances are compensated by series capacitors. One coil, the "horizontal" one, is in the circuit permanently -- the other coil, the "vertical" one, is connected through a switch. The device was tested during the year 1965 on various rural networks according to procedure outlined here for the case of a single-phase to ground fault. The device reduces trouble shooting time by 3-4 times and makes any switching within the distribution network unnecessary. Orig. art. has: 4 figures. [JPRS: 37,061]

SUB CODE: 09, 10 / SUBM DATE: none

Card 1/1 UDC: 621.315.1

POLUKHIN, V.P., kand.tekhn.nauk; ZINOV'YEV, A.V., inzh.; ZUBANOV, B.S., inzh.

Effect of the axial channel in working rolls on the elastic deformation of four-high rolling mill rolls. Stal' 25 no.5: 435-437 My '65. (MIRA 18:6)

1. Moskovskiy institut stali i splavov.

POLUKHIN, V.P.; ZINOV'YEV, A.V.; TERESHKO, A.K.

Elastic deformation of a disk under the effect of various systems of loading. Izv.vys.ucheb.zav.; chern. met. 8 no.4:102-106 '65. (MIRA 18:4)

1. Moskovskiy institut stali i splavov.

POLUKHIN, V.P., kand. tekhn. nauk; ZIKOV'YEV, A.V., inzh.; TERESHKO, A.K., inzh.

Simultaneous measurement of contact stresses and deformations during rolling. Izv. vys. ucheb. zav.; mashinostr. no.6s 144-149 '65. (MIRA 18:8)

POLUKHIN, V.P.; ZINOV'YEV, A.V.; TERESHKO, A.K.; LOSEV, K.F.

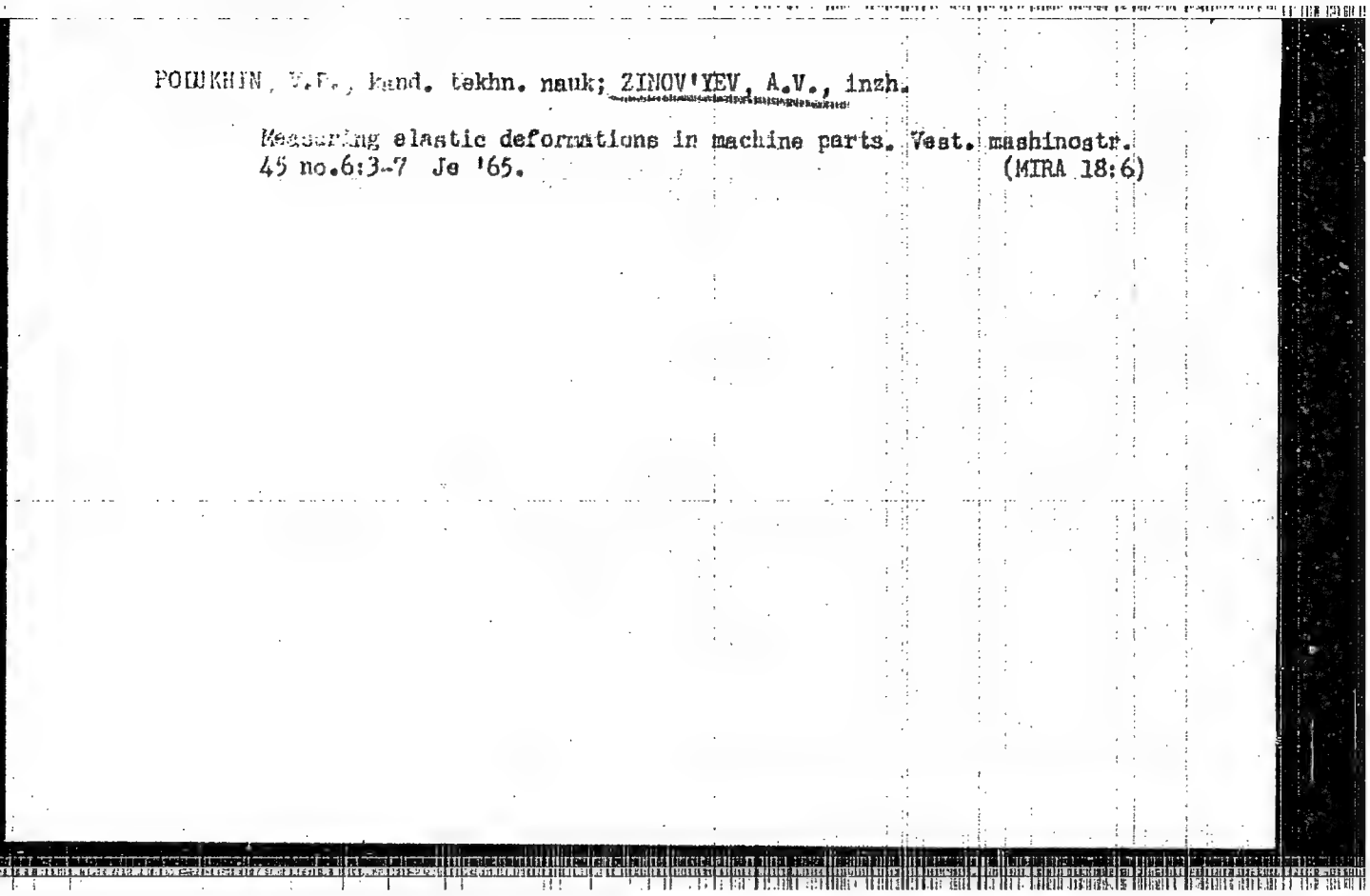
Elastic compression of the working rolls on four-high mills. Izv. vys. uchab. zav.; chern. met. 8 no.7:120-123 '65. (MIRA 18:7)

1. Moskovskiy institut stali i splavov.

POLUKHIN, V.P.; ZINOV'YEV, A.V.

Determining the actual specific pressure in rolling. Izv. vys. ucheb. zav.; chern. met. 8 no.9:117-121 '65. (MIRA 18:9)

1. Moskovskiy institut stali i splavov.



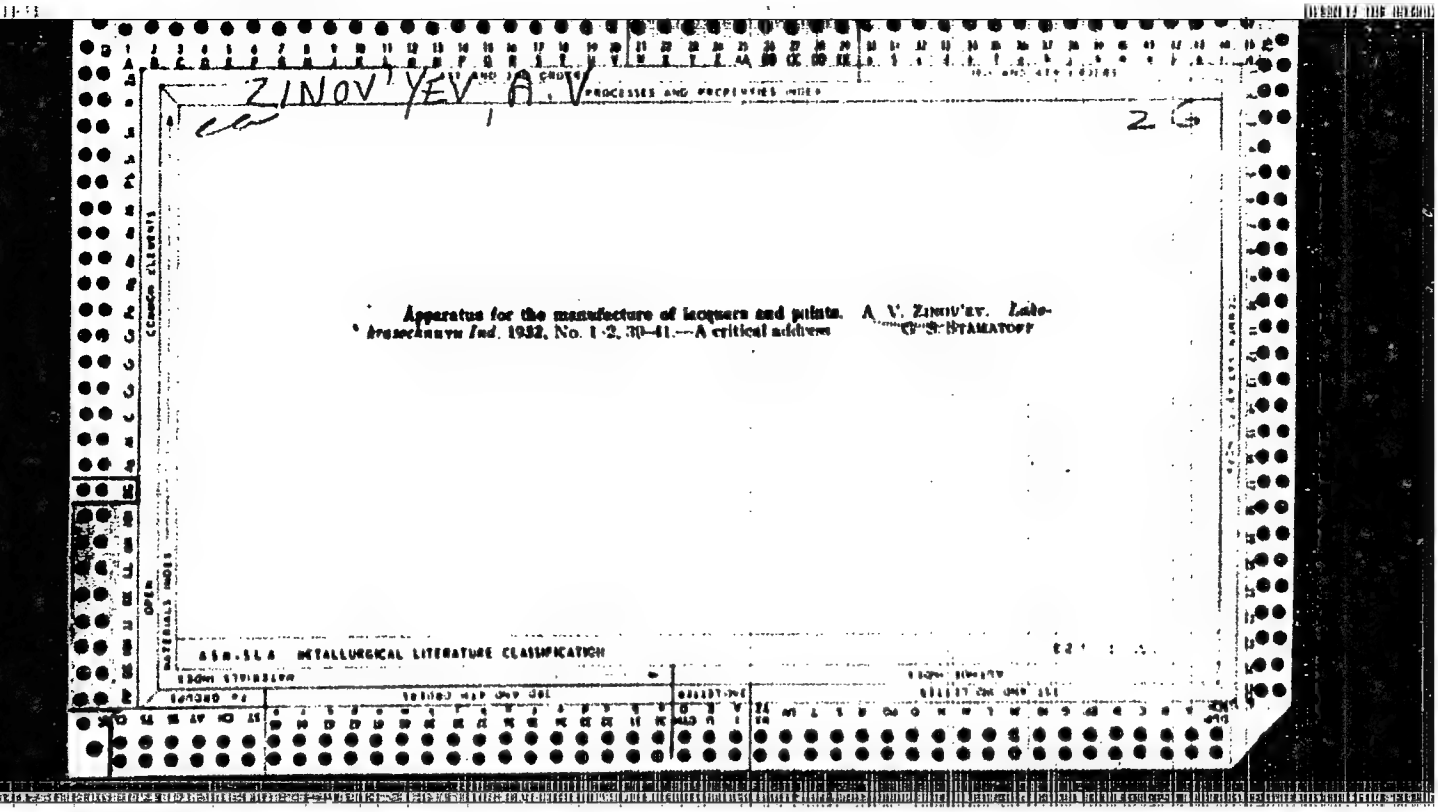
POLUKHIN, V.P., kand. tekhn. nauk; ZINOV'YEV, A.V., inzh.

Measuring elastic deformations in machine parts. Vest. mashinostr. 45 no.6:3-7 Je '65. (MIRA 18:6)

POLUKHIN, V.P.; ZHELEZNOV, Yu.D.; ZINOV'YEV, A.V.

Elastic deformations of rolls on a four-high mill. Izv. vys. ucheb. zav.; chern. met. 5 no.9:143-149 '62. (MIRA 15:10)

1. Moskovskiy institut stali i splavov. Rabota vypolnena pod rukovodstvom prof.doktora tekhn.nauk P.I.Polukhina i chlena-korrespondenta AN SSSR I.M.Pavlova.
(Rolls (Iron mills)) (Deformations (Mechanics))



POLUKHIN, V.P., kand.tekhn.nauk; ZINOV'YEV, A.V., inzh.

Effect of the axial hole on the elastic compression of rolls. Vest. mashinostr. 45 no.9:26-29 S '65. (MIRA 18:10)

ZINOV'YEV, Anatoliy Yakovlevich; MARKUS, B.M., red.

[New types of joints for precast reinforced concrete and mesh-reinforced concrete elements] Novye vidy soedinenii sbornykh zhelezobetonnykh i armotsementnykh konstruktsii. Leningrad, 1965. 25 p. (MIRA 18:5)

KORNILOV, Aleksandr Ivanovich; MININ, V.F.[deceased]; ZINOV'YEV, Anatoliy Yakovlevich; ZAGRYADSKIY, Vasiliy Ivanovich; KALININ, O.V., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Mesh-reinforced concrete roofs for industrial buildings; experience of the "Orgtekhstroi" Trust and Trust No.44 of the Administration of Construction of the Leningrad National Economic Council]Armotsementnye pokrytiia dlia promyshlennykh zdanii; iz opyta raboty tresta "Orgtekhstroi" i tresta No.44 Upravleniia stroitel'stva Lensovnarkhoza. Leningrad, 1962. 16 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: "Stroitel'naia promyshlennost'," no.5) (MIRA 15:8)

(Roofing, Concrete) (Industrial buildings)

LYAPUSTIN, A.K.; BOZHKO, G.; KONDRAT'YEV, I.; GARBARCHUK, M.I.; MUSTAFAYEV, Z.S.; IBRAGIMOV, R.; ZINOV'YEV, B.; ALEKSEYEV, A.A.; GLUKHOVA, G.; SAZONOV, Yu.; MEDVEDEV, I.D.

In the Soviet Union. Veterinariia 39 no.11:89-96 N '62. (MIRA 16:10)

GINZBURG, A.G.; OSTAPENKO, K.A.; BURDOV, A.N.; MELIKHOV, A.D.; ZINOV'YEV, B.; LABINOV, A.P.; SOTNIKOV, L.D.; POTAPOV, N.M.; KHRAMTSOV, V.V.

Information and brief news. Veterinariia 41 no.1:117-126 Ja '64. (MIRA 17:3)

SHEYNIN, A.B.; ZINOV'YEV, B.A.; KHEYFETS, V.L. (Leningrad)

Oscillographic study of the kinetics of electrode processes. Part 3: Cobalt electrode in solutions of various compositions. Zhur. fiz. khim. 35 no.3:513-516 Mr '61. (MIRA 14:3)

1. Institut nikelevoy, kobal'tovoy i olovyannoy promyshlennosti Leningrad.

(Electrodes, Cobalt)

L 40243-66 EWP(v)/EWT(d)/EWP(k)/EWP(h)/EWP(1) BC

ACC NR: AP6021398 SOURCE CODE: UR/0103/66/000/006/0164/0170

53

AUTHOR: Zinov'yev, B. G.(Moscow); Perel'man, I. I. (Moscow)

ORG: none

TITLE: Principles of electronic-pulse simulation of mass servicing systems 14

SOURCE: Avtomatika i telemekhanika, no. 6, 1966, 164-170

TOPIC TAGS: queueing theory, analog computer, computer simulation, mathematic model, STOCHASTIC PROCESS

ABSTRACT: A description is given of an analog-discrete electronic stochastic model, designed by the authors and to be used in the solution, by the Monte-Carlo method, of problems of mass servicing (queueing). The specific features of the simulation technique are illustrated on the basis of several examples. An estimate is made of the time required to solve queueing problems on all-purpose computers and on analog computers, and it is shown that the use of the analog electronic stochastic model for the solution of mass servicing problems by the physical simulation method results in a simplification of the programming process, is highly graphic in nature, and in many instances permits significant reduction in solution time when compared to the processing of identical problems on all-purpose class-computers. Moreover, the analog electronic stochastic model requires only a very small number of simple logical

Card 1/2 UDC: 519.152

L 40243-66

ACC NR: AP6021398

elements and standardized random time-interval sensors. Orig. art. has: 4 figures.

SUB CODE: 09/ SUBM DATE: 10Jul65/ ORIG REF: 004/ OTH REF: 002

Card 2/2 MLP

ZINOV'YEV, B.P.

AUTHOR: Zinov'yev, B.P., (Zagorsk, Moscow Oblast) 47-58-3-13/27

TITLE: Demonstrations of Alternating Current (Demonstratsii po peremennomu toku)

PERIODICAL: Fizika v Shkole, 1958, Nr 3, pp 53-55 (USSR)

ABSTRACT: The author describes 7 demonstrations enabling the students to understand the difference between direct and alternating current. There are 5 schematic drawings.

ASSOCIATION: 14-ya srednyaya shkola (The 14th Secondary School)

AVAILABLE: Library of Congress

Card 1/1 1. Physics-Study and teaching 2. Mercury lamps-Study and teaching 3. Luminescence-Study and teaching

ZINOV'YEV, B.S., zasluzhennyy veterinarnyy vrach Kazakhskoy SSR

Use of reserves in animal husbandry. Veterinariia 38 no.10: 32-33 O '61. (MIRA 16:12)

1. Nachal'nik Glavnogo upravleniya veterinarii upravleniya sovkhoza TSelinnogo kraya.
(Virgin Territory--Veterinary medicine)

ZINOV'YEV, B.S.; KAS'YANOV, A.F.; LAPSHIN, I.I.; SHARAFUTDINOV, M.;
LUZYANIN, D. Kh.; BRYUSHKOV, P.N.; SAVCHENKO, P. Ye.;
KOSOVER, S.I.; SHUL'MAN, I.Ye.; LAPSHIN. I.I.

Information. Veterinariia 38 no.8:91-96 Ag '61 (MIRA 18:1)